

ABSTRACT OF THE DISCLOSUREDEVICE AND PROCESS FOR SWITCHING AND CONTROLLING AN
ELECTRON DOSE EMITTED BY A MICRO-EMITTER

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This invention relates to a device for switching and controlling an electron dose emitted by a micro-emitter comprising

- 10 - a sensor module (30) that receives the output current from the micro-emitter and a voltage to adjust the polarization point of the said device,
- a comparator module that receives a threshold voltage to adjust the quantity of charges to be emitted,
- 15 - a logical module to initialize the electron emission, and to define whether or not the micro-emitter should emit,
- a control module that generates the voltages necessary for initialization and extinction of the
- 20 micro-emitter current pulse,
- means of varying the threshold voltage.

Figure 4.